

BENING, P. [Boning, Paull]; MEL'NIKOV, M.A. [translator]; VOROB'YEV, A.A.,
prof., doktor fiziko-matem. nauk, red.; LARIONOV, V.P., red.; PINTAL',
Yu.S., red.; BORUNOV, N.I., tekhn. red.

[Design and electrical strength of electric insulating materials]
Elektricheskaiia prochnost' izoliatsionnykh materialov i konstruktsii.
Pod obshchei red. A.A.Vorob'eva. Moskva, Gos. energ. izd-vo, 1960.
215 p. Translated from the German. (MIRA 14:11)
(Electric insulators and insulation)

S/181/60/002/009/037/047/X
B004/B070

AUTHORS: Vorob'yev, A. A., Vorob'yev, G. A., and Mel'nikov, M. A.
TITLE: Propagation of a Discharge in Monocrystals of NaCl and KCl
PERIODICAL: Fizika tverdogo tela, 1960, Vol 2, No. 9. pp 2019-2024

TEXT: Electric discharges in monocrystals of NaCl and KCl were studied. Table 1 gives a summary of the different conditions under which the experiments were carried out: discharge between a negative point electrode and a plane, between a positive point electrode and a plane, and between two point electrodes in a homogeneous field. Fig. 1 shows microphotographs of an incomplete discharge between a positive point electrode and a plane, and a negative point electrode and a plane. According to the calculations of Ref. 9, there is formed a molten channel of a diameter of some microns. Therefore, the duration t_d of the discharge was measured by means of an oscilloscope, and the length l_d of the channel was determined with a microscope; the functions $l_d = f(t_d)$ and $v_d = dl/dt$ were obtained. Fig. 2 shows a diagram of the function $v_d = f(t_d)$ for

Card 1/3

Propagation of a Discharge in Monocrystals
of NaCl and KCl

S/181/60/002/009/037/047/XX
B004/B070

positive and negative point electrodes. Since t_d increases with t_d , the observed phenomena may be explained as a single-avalanche discharge. The discharge proceeds along the [100] plane of the crystal for a negative point electrode; it proceeds along the plane [111] and, less often, along [110] for a positive point electrode. The average value v_m of the rate of propagation of the discharge was calculated (Table 2). v_m is considerably higher for a positive than for a negative point electrode. Therefore, there is an analogy between the discharge in the crystals investigated and that in a long stretch of air. The following relation was found to exist for positive point electrodes: $v_d = 0.1(db/t_{d \text{ min}})\epsilon(bt/t_{d \text{ min}})^{1/2}$, where d is the distance of the electrodes (0.4 - 1.2 mm), b a constant, $t_{d \text{ min}}$ the minimum discharge time. Fig. 4 shows a microphotograph of the discharge between two points. The discharge channels are in the neighborhood of the negative point. Direction and rate of discharge depend on the structure of the field, which is influenced by the positive ion charge. On account of impact ionization, the ionic charge is so concentrated in

Card 2/3

Propagation of a Discharge in Monocrystals
of NaCl and KCl

S/181/60/002/009/037/047/xx
B004/B070

solid dielectrics that the propagation of the discharge depends on it.
There are 4 figures, 2 tables, and 12 references: 11 Soviet and 1 German.

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnic
Institute)

SUBMITTED: February 10, 1960

✓

Card 3/3

MEL'NIKOV, M.A., kand.tekhn.nauk; OBUKHOV, V.I., inzh.

Study of the electrical "explosion" of wires using an oscilloscope.
Izv.vys.ucheb.zav.;energ. 6 no.1:99-102 Ja '63. (MIRA 16:2)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy
institut imeni S.M.Kirova.
(Electric wire) (Electric measurements)

L 31825-65

ACCESSION NR AML04370:

BOOK EXPLOITATION

S/

Mel'nikov, Nikolay Aleksandrovich; Rokotyan, Sergey Sergeyevich; Sherentsis,
Arnold Nnumovich

Designing electrical parts of aerial lines for electrotrenmission from 330
to 500 kv (Proyektirovaniye elektricheskoy chasti vozdushnykh linii
elektroperedachi 330-500 kv), Moscow, Gosenergopizdat, 1964, 559 p. illus.,
biblic. 3,000 copies printed.

TOPIC TAGS: electrical distribution system, superhigh voltage, electrical
engineering

PURPOSE AND COVERAGE: This book presents experience gained in the USSR and
abroad on the design, construction, and use of 330-500 kilovolts electrical
transmission lines. The book discusses problems of electrical calculations of
electrical transmission and superhigh voltage electrical networks and the
selection of electrical transmission systems and their basic parameters.
Problems in the coordination of insulation, protection against internal and
atmospheric overloads, line construction and other problems connected with
the design of 330-500 kilovolts electrical transmission lines are cited. The
book is intended for engineers working in the design, construction, and use of

Card 1/3

L 31825-65

ACCESSION NR AM043704

330-500 kilovolts electrical transmission lines and can be useful for power engineering students in the specialty of electrical networks and systems.

TABLE OF CONTENTS [abridged]:

Introduction ---	3
Ch. I. Experience in the design, construction, and use of superhigh voltage lines ---	19
Ch. II. Electrical transmission schemes and measures to increase their capacity ---	65
Ch. III. Basic parameters of lines and their foundation ---	99
Ch. IIII. Construction of 330-500 kilovolts electrical transmission lines ---	159
Ch. V. Insulation of electrical transmission lines ---	197
Ch. VI. Internal overloads in superhigh-voltage electrical transmission lines ---	222
Ch. VII. Protection against atmospheric overloads and grounding installations ---	272
Ch. VIII. Operating regimes of electrical transmission ---	326
Ch. IX. Calculating the most economical regime of electrical transmission ---	367
Ch. X. Incomplete phase regimes of electrical transmission ---	397

Card 2/3

L 31825-65

ACCESSION NR AMI 043704

Ch. XI. Selection of the length of transposition cycles of electrical transmission lines -- 424
Ch. XII. Grounding cables in long-range electrical transmission -- 442
Ch. XIII. Compensation of the parameters of electrical transmission lines -- 457
Ch. XIV. Starting regimes of electrical transmission -- 481
Conclusion -- 494
Appendices -- 513

SUBMITTED: 21Dec63

SUB CODE: EE

NO REF Sov: 154

OTHER: 036

Card 3/3

L 64116-65 EWT(m)/EWA(d)/EWP(t)/SWP(k)/EWP(b)/EWA(c) JD/HW

ACCESSION NR: AP5021165

UR/0139/65/000/004/0039/0045

AUTHOR: Mel'nikov, M. A.; Barchenko, T. N.

TITLE: The effect of the circuit parameters on the processes associated with exploding wires

SOURCE: IVUZ. Fizika, no. 4, 1965, 39-45

TOPIC TAGS: exploding wire, electric wire, fine wire

ABSTRACT: An investigation was made of the effects of various generator parameters (voltage, capacitance, inductance, and energy stored by the generating capacitor) and wire parameters (resistivity, diameter, resistance) on the energy released in the wire up to the current pause and on the time and rate of the energy release. Ni-chrome, constantan, and copper wires were tested. Constantan required the lowest energy for explosion and copper the highest. The percentage of the stored energy used depended only weakly on the material. When the energy stored in the capacitor was greater than that required for the explosion, the higher energy due to the increased capacitance did not result in an increase in the energy released in the explosion. Both the time required to reach the pause and the rate of energy release remained constant. The percentage of the stored energy used depended on the relation-

Card 1/2

19

18

L 64116-65

ACCESSION NR: AP5021165

ship between the wire resistance and the characteristic impedance of the generator. An increase in the energy stored in the capacitor at the expense of the voltage at a constant capacity did not change the amount of energy released. However, there was a decrease in both the period and rate of the energy release. The reduction of the wire diameter led to a decrease of the energy required for explosion in proportion to the mass of the wire. A cable used to transmit the energy to the wire did not affect the amount of energy, although the time required for the wire to explode increased. Thus the rate of the energy release decreased. Orig. art. has: 6 figures. [JA]

ASSOCIATION: Tomskiy politekhnicheskiy institut imeni S. M. Kirova (Tomsk Poly-technical Institute)

SUBMITTED: 09Dec63

ENCL: 00

SUB CODE: EC

NO REF Sov: 006

OTHER: 000

ATD PRESS: 4070

Card

dm
2/2

KOVAL'CHUK, Boris Mikhaylovich, inzh.; KOTOV, Yuriy Aleksandrovich, inzh.;
MEL'NIKOV, Mikhail Alekseyevich, kand. tekhn. nauk, dotsent

Determination of the energy of an electric spark. Izv. vys.
ucheb. zav.; elektromekh. 8 no.10:1168-1171 '65.

(MIRA 18:11)

1. Tomskiy politekhnicheskiy institut (for Koval'chuk, Kotov).
2. Kafedra tekhniki vysokogo napryazheniya Tomskogo poli-
tekhnicheskogo instituta (for Mel'nikov). Submitted April 27,
1964.

ACC NR AP7007740 (A, N) SOURCE CODE: UR/0407/66/000/003/0028/0032

AUTHOR: Kotov, Yu. A. (Tomsk); Mel'nikov, M. A. (Tomsk)

ORG: none

TITLE: Recording of shock waves and exploding wire electrical characteristics

SOURCE: Elektronnaya obrabotka materialov, no. 3, 1966, 28-32

TOPIC TAGS: exploding wire, shock wave, shock wave ~~recording~~, ^{analysis}, ~~wire characteristics~~, exploding

ABSTRACT: A system for the recording of shock-wave velocities and the current and voltage in an exploding wire is described. The purpose of the present work is to create a source of shock waves with controllable (variable) parameters. The solution of the problem consists in the strict synchronization of the basic elements of the system: the generator of the exploding power, the generator of the exposure pulse, two oscilloscopes, and the SFR-2 recording camera. The system also includes a common time marking device, the marks of which appear on photoscanned displays. One of the two oscilloscopes, an OK-19M2 (scanning range, 0.1 to 3 μ sec), records

Card 1/2

UDC: none

'ACC NR: AP7007740

individual stages of the process; the other, an OK-17M2 (scanning range, 3 to 2000 usec), records the whole cycle. The circuitry and its operation are described and its components discussed. The authors thank Professor A. A. Vorob'yev for his interest and assistance. Orig. art. has: 4 figures.

[FP]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 007/ ATD PRESS: 5117

Card 2/2

MEL'NIKOV, M.F.

The white-muscle disease in calves. A. P. Onegov, M. R.
Mel'nikov, and N. A. Gleshkova. (Agr. Inst. Kirov).
Voprosy Sel'skogo Hoz. No. 3, 55-6 (1966).—The so-called white-
muscle disease in cows, calves, and pigs is endemic, and is
connected with deficiencies in Ca, Cu, Mn and I; the vita-
min A, B₁, and C deficiency is a contributory factor.
G. M. Koelapoll

3

PROSKURYAKOV, Andrey Vladimirovich; MEL'NIKOV, M.F., inzh., retsenzent;
TSIKURIKH, N.V., kand.tekhn.nauk, retsenzent; AVRUTIN, S.V.,
dotsent, red.; BARYKOVA, G.I., red.izd-va; SMIRNOVA, G.V., tekhn.red.

[Technological and economic bases for standardizing and universal-
izing machine-tool attachments] Tekhniko-ekonomicheskie osnovy
normalizatsii i universealizatsii prispособлений. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 159 p. (MIRA 12:12)
(Machine tools--Attachments)

1. MEL'NIKOV, M. F., ENG., CHERNOBROV'Y, N. V., CHERNYAYEV, P. D., ENGS.
2. USSR (600)
4. Electric Lines
7. Blocking relay for improving the protection of lon. 220 KV transmission lines.
Elek. Sta. 23, no. 10, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

MEL'NIKOV, M.F.

AID P - 2548

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 32/32

Author : Mel'nikov, M. F., Eng.

Title : M. A. Berkovich and V. A. Semenov. Osnovy tekhniki i ekspluatatsii releynoi zashchity (Fundamentals of technique and operation of relay protection), State Power Publishing House, 1954, 240 p. (Book Review)

Periodical : Elek sta, 6, 63-64, Je 1955

Abstract : The author gives a favorable opinion of the book, especially of the last two chapters that deal with the mounting and checking of relay protection. However, some problems are not sufficiently expounded and the reviewer hopes that a second edition will eliminate these deficiencies.

Institution : None

Submitted : No date

BASS, Eleonora Isaakovna; BERKOVICH, Mikhail Arnol'dovich;
SAVOST'YANOV, Aleksey Ivanovich; SEMENOV, Vladimir
Aleksandrovich; MEL'NIKOV, M.F., nauchn. red.; SOROKINA,
M.I., red.; PERSON, M.N., tekhn. red.

[Maintenance electrician of relay protection and automatic
control systems] Elektromonter po ekspluatatsii releinoi
zashchity i avtomatiki. [By] E.I.Bass i dr. Moskva, Prof-
tekhizdat, 1963. 342 p. (MIRA 17:3)

MEL'NIKOV, M.F., inzh.; SEMENOV, V.A., inzh.

Distance-type protection in networks with longitudinal
capacitive compensation. Elek. sta. 35 no. 4:74-76
(MIRA 17:7)
Ap '64.

MEL'NIKOV, M.F., inzh.; SEMENOV, V.A., inzh.

Resonance effects in 500 kv. power distribution networks. Elek.
sta. 36 no.1:62-64 Ja '65. (MIRA 12:3)

BERKOVICH, M.A., inzh. (Moskva); MEL'NIKOV, M.F., inzh. (Moskva)

Experience in the operation of relay protection and automatic
line equipment in 400-500 kv. Elektrichestvo no.12:1-5 D '64.
(MIRA 18:12)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033420019-8

LENINOV, Mikhail Ivanovich.

The principles of Darwinism, a textbook in . . ., pod redaktsiei red. A. I. Vinogradova.
Moskva, Izd. uch.-pedagog. i zdr.-vo, 1946. 263 s. 4 -1954

QF317.947 1946

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033420019-8"

MEL'NIKOV, Mikhail Ivanovich, ed.

Teaching biology in secondary schools: collection of articles. Moscow. Izd-vo
Akademii pedagog. nauk SSSR, 1950. 185 p. (Pedagogicheskaya biblioteka uchiteliia)
(51-1782)

Q515.M5

IVANOVA, A.M., nauchnyy sotrudnik, sostavitel'; MEL'NIKOV, M.I., kandidat pedagogicheskikh nauk, otvetstvennyy redaktor.

[Peculiarities of teaching biology in schools for working youth; collection of articles] Osobennosti prepodavaniia biologii v shkolakh rabochei molodezhi; sbornik statei. Otvetstvennyi redaktor M. I. Mel'nikov. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1952. 157 p. (MLRA 6:5)

1. Institut metodov obucheniya (for Ivanova).
(Biology--Study and teaching)

NEL'NIKOV, N. A.

Evolution

Method of teaching the theme, "Revolution in science completed by the Darwinian theory."
Est. v. shkole, no. 4, 1952.

Monthly List of Russian Accession, Library of Congress, November 1952. UNCLASSIFIED.

MEL'NIKOV, Mikhail Ivanovich.

[Methods for teaching the fundamentals of Darwinism; book for secondary school biology teachers] Metodika prepodavaniia osnov darvinizma; kniga dlia uchitelei biologii srednei shkoly. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1953. 291 p.
(MLRa 5:8)
(Evolution)

MEL'NIKOV, M.I., kandidat pedagogicheskikh nauk.

Place of biology teachers in the creative development of methodology in
natural history. Est. v shkole no.4:3-13 Jl-Ag '53. (MLRA 6:6)

1. Institut metodov obucheniya Akademii pedagogicheskikh nauk R.S.F.S.R.
(Natural history--Study and teaching)

MEL'NIKOV, M.I.

MEL'NIKOV, M.I.; YELAGIN, V.D., redaktor.

[Methodology of developing the concept of the organism and its environment] Metodika formirovaniia poniatiia o edinstve organizma i usloviii ego zhizni. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1954. 38 p.
(Biology--Study and teaching) (Ecology)

(MIRA 7:8)

MEL'NIKOV, M. I.; TSVETKOVA, Ye. A., redaktor; DZHATIYEV, S. G., tekhnicheskiy
redaktor

[Teaching biology in the secondary school] Iz opyta prepodavaniia
biologii v srednei shkole. Moskva, Gos. uchebno-pedagog. izd-vo
Ministerstva prosveshcheniya RSFSR, 1954. 201 p. (MIRA 8:4)
(Biology--Study and teaching)

MEL'NIKOV, M.I., rukovoditel'; SKATKIN, M.N., rukovoditel'.

"Pedagogical reports" for 1953. Met.v shkole no.1:92-96 Ja-P '54.

(MLRA 6:12)

1. Sektsiya metodika estestvoznaniya (for Mel'nikov). 2. Sektsiya
politekhnicheskogo obucheniya (for Skatkin).
(Science--Study and teaching)

MEL'NIKOV, M.I., kandidat pedagogicheskikh nauk.

Conclusions drawn from past methods of teaching biology and
tasks for the coming school year. Est. v shkole no.4:3-11 Jl-
Ag '54.
(MLRA 7:8)

1. Institut metodov obucheniya Akademii pedagogicheskikh nauk
RSFSR.
(Biology--Study and teaching)

MEL'NIKOV, MIKHAIL IVANOVICH

EPP
.R92267

TVORCHESKAYA RABOTA UCHITELEY BIOLOGII V RAZVITII METODIKI
YESTESTVOZNANIYA. MOSKVA, IZD-VO AKAD. PED. NAUK RSFSR, 1955.

30 P.

AT HEAD OF TITLE: AKADEMIYA PEDAGOGICHESKIH NAUK RSFSR. INSTITUT METODOV
OBUCHENIYA.

MEL'NIKOV, M.I.; SHIBANOV, A.A.; KORSUNSKAYA, V.M.; RYBAKOVA, N.T., re-daktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor

[Fundamentals of Darwinism; textbook for class 9 of the secondary school] Osnovy darvinizma; uchebnoe posobie dlia IX klassa srednei skholy. Izd. 6-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniya RSFSR, 1955. 150 p. (MIRA 8:7)
(Evolution)

MEL'NIKOV, M. I.

AID P - 1885

Subject : USSR/Electricity

Card 1/2 Pub. 28 - 2/5

Authors : Azimov, B. A., Mel'nikov, M. I., and Raynin, B. L.

Title : Operation characteristics of electric drive of drilling hoist

Periodical : Energ. byul., no.3, 13-21, Mr 1955

Abstract : The authors present the results of their analysis of observations of the electric drive operation of the U2-5-4 drilling hoist of the "Uralmash-4E" petroleum drilling outfit, a very late design, equipped with two 330 kw motors of MAB-138-6 type. Five diagrams and two tables accompany the text. The second table provides detailed information on lowering and hoisting drilling tools and casing, the techniques involved, and the time and power consumed by each operation.

Energ. byul., no.3, 13-21, Mr 1955

AID P - 1885

Card 2/2 Pub. 28 - 2/5

Institution : None

Submitted : No date

Subject : USSR/Engineering AID P - 2861
Card 1/1 Pub. 28 - 1/7
Authors : Azimov, B. A., M. I. Mel'nikov, and B. L. Raynin
Title : Selection of a proper electric drive for drilling outfit
Periodical : Energ. byul. 9, 1-9, S 1955
Abstract : The authors discuss synchronous and induction motor drives (FAMSO 158-8, 380 kw and SM 540-750, 401 kw) which are used in the Soviet petroleum drilling operations, and also mud pumps, drilling drive gear, application of A-C and D-C power and controls. Three diagrams and 2 tables are attached.
Institution : State Institute for Design of Machinery for the Petroleum Industry (Giproneftemash, GNM).
Submitted : No date

SHALAYEV, V.F.; PADALKO, N.V.; MEL'NIKOV, M.I.; PETRISHINA, O.L.; PROPERANSOVA,
N.V., redaktor; SOKOLOVA, P.Ya., tekhnicheskiy redaktor

[General science instruction in connection with the biology course]
Politekhnicheskoe obuchenie v sviazi s kursom biologii. Pod obshchey
red. V.F.Shalaeva. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1956.
174 p.

(MLRA 10:2)

(Biology--Study and teaching)

BULATOV, N.P., redaktor; VOVSI, I.I., redaktor; YUDOVICH, E.F.; MALYSHEV,
MEL'NIKOV, M.I.; SKATKIN, M.N.; STAVROVSKIY, A.Ye., SHI-
HANOV, A.A.; SHCHUKIN, S.V.; GONCHAROV, N.K.; redaktor; TITKOV,
P., redaktor; ZHURAVLEV, V.T., pedagogicheskij redaktor.

[General technical training in secondary schools; work practice
of city and rural schools] Politekhnicheskoe obuchenie v srednei
shkole; iz opyta raboty gorodskikh i sel'skikh shkol. Moskva,
1956. 279 p.
(MLRA 9:5)

1. Akademiya pedagogicheskikh nauk RSFSR. Moscow.
(Technical education)

MEL'NIKOV, M.I., kandidat pedagogicheskikh nauk.

Experience of progressive biology teachers. Est. v shkole no.4:
3-10 Jl-Ag '56. (MIRA 9:9)

1. Institut metodov obucheniya Akademii pedagogicheskikh nauk
RSFSR. (Biology--Study and teaching)

MEL'NIKOV, M.I.

Power characteristics of pumping unit drives with motors of the
AOP and AOS series. Energ. biul. no.11:8-14 N '56. (MLRA 9:12)
(Oil well pumps) (Electric motors)

MEL'NIKOV, M.I., kandidat pedagogicheskikh nauk.

Polytechnical education. Biol.v shkole no.2:8-13 Mr-Ap '57.
(MLRA 10:5)

1. Institut metodov obucheniya Akademii pedagogicheskikh nauk RSFSR.
(Agriculture--Study and teaching)

MEL'NIKOV, M.I., kandidat pedagogicheskikh nauk.

Contents and system of the course "Fundamentals of Darwinism."
Biol. v shkole no.3:51-54 Ky-Je '57. (MLRA 10:6)

1. Institut metodov obucheniya Akademii pedagogicheskikh nauk RSFSR.
(Evolution--Study and teaching)

MEL'NIKOV, M. I., kand. ped. nauk

Fundamentals of Darwinism in schools of Bulgaria and the German Democratic Republic. Biol. v shkole no.4:67-70 Jl.-Ag '58.
(MIRA 11:9)

1. Institut metodov obuchaniya APN RSFSR.
(Bulgaria--Evolution--Study and teaching)
(Germany, East--Evolution--Study and teaching)

VSESVYATSKIY, B.V., prof.; MEL'NIKOV, M.I., kand.ped.nauk; PREZENT, I.I.;
SHALAYEV, V.F., kand.ped.nauk

Was V.V. Polovtsov a materialist? Biol. v shkole no.5:13-17
(MIRA 11:11)
S-O '58.

1. Deystvitel'nyy chlen Vsesoyuznoy adademii sel'skohozyayst-
vennykh nauk im V.I. Lenina (for Prezent).
(Polovtsov, Valerian Viktorovich, 1862-1918)

MEL'NIKOV, M.I., kand.pedagog.nauk

Educational significance of a school course in biology.
Biol.v shkole no.6:11-15 N-D '59. (MIRA 13:3)

1. Institut metodov obucheniya Akademii pedagogicheskikh
nauk RSFSR. (Biology--Study and teaching)

MEL'NIKOV, M.I.

Our new way of studying. IUn. nat. no.9:2-3 8 '59.

(MIEA 13:1)

1.Zavednyushchiy laboratoriye metodiki biologii APN BSFSR.
(Biology--Study and teaching)

MEL'NIKOV, M. I., doktor pedagog.nauk

Book on Charles Darwin's life, activities, and work ("Charles Darwin: life, activities, and work of the founder of the theory of evolution" by E.A.Veselov. Reviewed by M.I.Mel'nikov). Biol. v shkole no.5:92-94 S-0 '60. (MIRA 13:11)

1. Institut metodov obucheniya Akademii pedagogicheskikh nauk RSFSR.
(Darwin, Charles Robert, 1809-1882) (Veselov, E.A.)

MEL'NIKOV, M.I., red.; GRYZLOV, N.G., red.; NOVOSELOVA, V.V., tekhn.
red.

[Teaching biology according to the new program in the eight-year school] O prepodavanii biologii v vos'miletnei shkole po novoi programme. Pod red. M.I.Mel'nikova. Moskva, 1961.
(MIRA 14:5)
159 p.

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut obshchego i politekhnicheskogo obrazovaniya.
(Biology—Study and teaching)

MEL'NIKOV, M. I., doktor pedagogicheskikh nauk, prof.

State of students knowledge in biology. Biol. v shkole no.6:8-15
N-D '61. (MIRA 14:11)

1. Institut obshchego i politekhnicheskogo obrazovaniya
Akademii pedagogicheskikh nauk RSFSR.
(Biology—Study and teaching)
(Grading and marking(Students))

MEL'NIKOV, M.I.; PADALKO, N.V.; MASH, R.D.

Using the materials of 22d Congress of the CPSU in teaching biology.
(MI:A 15:1)
Biol. v shkole no.1:12/18 Ja-F '62.

1. Institut obshchego i politekhnicheskogo obrazovaniya Akademii
pedagogicheskikh nauk RSFSR
(BIOLOGY STUDY AND TEACHING)

MEL'NIKOV, M.I., doktor pedagogicheskikh nauk, prof.

Improving the biological education of secondary school students.
Biol. v shkole no.6:26-30 N-D '62. (MIRA 16:2)

1. Institut obshchego i politekhnicheskogo obrazovaniya
Akademii pedagogicheskikh nauk RSFSR.
(Biology—Study and teaching)

MEL'NIKOV, M.I. (Moskva)

Second interinstitute conference of biology methodologists.
Biol. v shkole no.1:96 Ja-F '63. (MIRA 16:6)

(Biology—Study and teaching)

MEL'NIKOV, M.I.

"Pedagogical lectures" in 1963, Biol. v shkole no. 2: 88-89 May '63.
(MIRA 16pg)

1. Institut obshchego i politekhnicheskogo obrazovaniya Akademii
pedagogicheskikh nauk RSFSR, Moskva.
(Biology—Study and teaching)

MEL'NIKOV, M.I.

Educational significance of a general biology course. Biol. v
shkole no.3:6-10 My-Je '63. (MIRA 16:10)

1. Institut obshchego i politekhnicheskogo obrazovaniya APN RSFSR,
Moskva.

MELNIKOV, M. I. [Mel'nikov, M. Il], prof.; VURBANOVA, Ts. [translator]

Achievements of the teachers of biology in the city of Lipetzk
and the Lipetzk region, U. S. S. R. Biol i khim 6 no. 3:24-27
'63.

1. Institut po obshto i politekhnicheskogo obrazovaniye pri APN
na RSFSR.

MELNIKOV, M.I. [Mel'nikov, M.I.]

Achievements of the teachers in biology from Lipets and the Lipets District. Biol i khim 7 no.6:23-27 '64.

1. Institute of General and Polytechnical Education of the Academy of Pedagogic Sciences of the R.S.F.S.R., Moscow.

L 11157-66 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(h) JD
ACC NR: AP6000356

SOURCE CODE: UR/0286/65/000/021/0049/0049

AUTHORS: Prosvirov, N. T.; Gedberg, M. G.; Aderikhin, A. S.; Salimon, V. S.;
Ar'kov, V. G.; Mel'nikov, M. P.; Kozak, N. N.

ORG: none

TITLE: Modified high speed steel. Class 40, No. 176071 [announced by Volgograd
Scientific Research Institute of Machine Construction Technology (Volgogradskiy
nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 49

TOPIC TAGS: steel, carbon, chromium, tungsten, vanadium, titanium, nitrogen,
manganese, carbon steel, alloy steel

ABSTRACT: This Author Certificate presents a modified high speed steel containing
carbon, chromium, tungsten, vanadium, and nitrogen. To increase its cutting ability,
the steel has the following composition (in %): carbon 0.85—1.0; chromium 4.0—
5.0; tungsten 9.0—10.5; vanadium 2.2—2.4; titanium 0.25—0.30; nitrogen 0.09—0.13;
manganese 1.2—2.0.

SUB CODE: 11/ SUBM DATE: 04Feb63

UDC: 669.14.018.252—3

PC
Card 1/1

MEL'NIKOV, M. M.

"Investigations in the Field of Organic Mercury Compounds: VI. On
the Synthesis of Dialkylmercury," Zhur. Obshch. Khim., 16, No. 12,
1946. Mbr., Lab.Organic Chemistry, OFNIUIF (Sci. Int. Fertilizers
& Insectofungicides) 1945-.

USSR/Chemistry - Insecticides, Phosphorus Organic Compounds
MEL'NIKOV, M. M.

Ref ID:

"Organic Insectifungicides. XIII. Synthesis of Fatty Esters of Phosphoric Acid Containing Simple Substituents in the Aliphatic Chain,"
Thiophosphoric acids containing simple substituents in the aliphatic chain,
V. L. Gashina, I. I. Vinogradova, Ye. A. Lebedeva, V. I. N. Mel'nikov

Zhur. Gishch. Khim., Vol. 23, No. 3, p. 433-435

Synthesized a series of fatty esters of phosphoric and thiophosphoric acids containing chlorine and oxyethyl in the aliphatic chains. The following esters were synthesized:
mono- and di-esters of thiophosphoric acid containing chloroethyl groups.

25/521

MEL'NIKOV, M.N., inzhener; GRODSKIY, Ya.S.; BAKSHI, R.A.

Redesign of gas burners in heating furnaces. Stal' 16 no.11:1035-
1056 N '56. (MLRA 10:1)

1. Druzhkovskiy metiznyy zavod i Yuvenergochermet.
(Gas burners) (Metallurgical plants--Equipment and supplies)

1.1710 also 2708

22938
S/125/61/000/006/002/010
D040/D112

AUTHORS: Yunger, S. V., Mel'nikov, M. I., Logvinov, V. I.

TITLE: Effect of long heating at 350-600°C on impact resistance of austenite-ferritic welds

PERIODICAL: Avtomaticheskaya svarka, no. 6, 1961, 14-20

TEXT: The results are given of an experimental investigation at the Stalin-grad Scientific Research Institute of Machine Building, or SNIITMASH, on the effect of long heating at 350-600°C on the impact resistance of welded joints on 1X18N9T (1Kh18N9T) steel. It was proved that joints welded by automatic machines are less prone to embrittlement than joints welded manually with the same electrode wire. It is a known fact that the presence of ferrite in welds on austenitic steel prevents crystallization cracks, and new wires and electrodes contain ferrite-producing constituents (silicon, vanadium, columbium, etc.), but the ferrite phase in austenite steel welds is unstable at 350-600°C, which is the usual service temperature for 1Kh18N9T steel. Information had been published on brittle failure of welds due to sigma-phase formation. The permissible per cent ferrite content in

Card 1/6

22938
S/125/61/000/006/002/010
D040/D112

Effect of long heating at 350-600°C.,..

welds is not certain. The article includes the chemical composition of welds produced by different electrodes in SNIITMASH experiments, and of the base 1Kh18N9T metal:

Electrode or wire	Weld metal	Content (%)								
		C	Mn	Si	Cr	Ni	Ti	V	Nb	α -phase in welds (%)
<u>Manual Welding</u>										
Л -39 (L-39)	ОХ 1849С (OKh18N9S)	0.08	2.69	0.82	18.54	9.25	0.08	-	-	2.7
Л -40М (L-40M)	ОХ 1849С5 (OKh18N9SB)	0.07	2.26	1.03	18.54	9.64	0.06	-	0.62	5.2
ГЛ -1 (GL-1)	ОХ 1849С2 (OKh18N9S2)	0.08	1.90	2.70	18.35	9.27	0.04	-	-	7.0
ГЛ -2 (GL-2)	ОХ 1849С2 (OKh18N9F2S2)	0.06	0.74	1.64	18.05	9.42	0.06	2.16	-	16.0
Л (Д)	ОХ 2049С5 (OKh20N9F2SB)	0.10	1.41	0.94	19.90	9.67	0.08	2.17	1.49	20.0

Card 2/6

22936

S/125/61/000/006/002/010
D040/D112

Effect of long heating at 350-600°C...

Electrode or wire	Weld metal	Content (%)							α -phase in welds (%)
		C	Mn	Si	Cr	Ni	Ti	V	
<u>Automatic welding</u>									
C ₈ -04x19N9 (Sv-04Kh19N9)	OKh18N9 (OKh18N9)	0.07	1.16	0.78	17.8	9.72	0.026	-	1.8
C ₆ -04x18N9C2 (Sv-04Kh18N9S2)	OKh18N9C (OKh18N9S)	0.07	0.73	1.21	18.84	10.14	0.27	-	4.7
C ₆ -05x19H9F3C2 (Sv-05Kh19N9F3S2)	OKh18N9FC (OKh18N9FS)	0.08	0.75	0.85	18.80	9.55	0.21	1.08	7.2
<u>Base metal</u>									
--	1Kh18N9T (1Kh18N9T)	0.09	0.74	0.85	18.80	9.55	0.52	-	1.0

The welds were tested after long holding at 350-600°C. The electrodes and wires were standard except for one experimental composition (OKh20N9F2SB). The specimens (plates) were joined manually by butt welds, with edges

Card 3/ 6

Effect of long heating at 350-600°C.

22936
S/125/61/000/006/002/010
D040/D112

bevelled at 30°, in four beads, using 180-200 amp inverse polarity current. Automatic welds were welded without bevelling edges, by buried arc, with AW-26 (AN-26) flux of the Institut elektrosvarki (Electric Welding Institute), using 700-750 amp 38-40 v a.c., at a speed of 31 m/hr. Standard impact test specimens and separate cylindrical specimens for determination of ferritic phase were subjected to isothermal heating for different times between 100 and 5000 hours. Carbide phase was examined by electrolytic etching in 10% ferrocyanide solution in water (with 5 volt current, for 5-7 sec). Alpha-ferrite and sigma-phase were revealed by subsequent etching in potassium hydroxide or sodium hydroxide. The structure phases revealed in metallographic examinations were checked by X-ray analysis. It was stated that the impact resistance of welds was higher at ageing temperature than at room temperature, particularly in OKh20N9F2SB metal (3-5 times higher). This means that the reduced impact resistance caused by prolonged heating at 350-600°C is most dangerous when the temperature goes down, e.g. when a machine is stopped, and not in operation. Ageing with carbide separation was established in weld metal with 3% ferrite after 5000 hours at 400°C and 1000 hours at 450°C; at higher temperatures carbides formed not only on the austenite-ferrite boundaries but also in austenite adjoining the ferrite.

Card 4/6

22938
S/125/61/000/006/002/010
D040/D112

Effect of long heating at 350-600°C ...

Sigma formed at 550°C. Ferrite became "spongy" as a result of long ageing, split, and after the formation of sigma remained in single spots in the form of an eutectoid consisting of changed austenite and ferrite. Conclusions: 1) The initial content of ferrite component reduces the impact resistance considerably and increases the embrittlement of welded joints over a long time at 350-600°C. 2) The impact resistance drops mainly during the first 1000 hours, it drops more slowly between 1000 and 2000 hours, and then up to 5000 hours the effect of heat is not noticeable. 3) The impact resistance over the entire 350-600°C range rises considerably at ageing temperature in comparison to room temperature. This applies equally to welds embrittled by separation of secondary carbides and sigma, and welds embrittled without sigma formation. 4) Not only the quantity but also the quality of ferrite has a considerable effect, i.e. its distribution in weld metal depending on the welding method and the alloying system. Welds produced by machines have considerably better properties than welds made manually, the ferrite content being equal. 5) In the case of identical austenite-ferrite welding wires, automatically welded joints have considerably better impact resistance than manually welded, for machine welds contain less filler metal and hence less ferrite. V. V. Faleyeva and L. V. Yudina took part in the

Card 5/6

22578

Effect of long heating at 350-600°C...

S/125/61/000/006/002/010
D040/D112

investigations. There are 10 figures, 2 tables and 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: L. K. Poole, Sigma and Unwanted Constituent in Stainless Weld Metal, "Metal Progress", v. 65, No. 6, 1954.

ASSOCIATION: Stalingradskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (SNIITMASH) (Stalingrad Scientific Research Institute of Machine Technology)

SUBMITTED: August 31, 1960

Card 6/6

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033420019-8

MEL'NIKOV, M.S.

Relationship between volume and diameter of sets in n-dimensional
Banach space. Usp. mat. nauk 18 no.4:165-170 Jl-Ag '63.
(MIRA 16:9)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001033420019-8"

VITUSHKIN, A.G.; IVANOV, L.D.; MEL'NIKOV, M.S.

Incommensurability of the minimal linear measure with the set length. Dokl. AN SSSR 151 no.6:1256-1259 Ag '63. (MIRA 16:10)

1. Predstavлено академиком А.Н.Колмогоровым.

61TB3

USER/Mines and Mining
Mining Methods
Mining Machinery

"Some False Ideas Concerning the Utilization of a
Flank Method of Mining," M. V. Mel'nikov, Candidate
Tech Sci, Laureate of the Stalin Prize, 3 pp

Jan 1948

"Ugol" No 1 (262)

In many mines favorite method of working tunnels is a
flank operation. Author claims this is inefficient
and uneconomical. Favors frontal attack on tunnel
where whole face of ore body is worked at same time.
Presents methods of working mines using frontal method
and describes machinery and equipment aggregate to be
used.

61TB3

Jan 1948

USER/Mines and Mining (Contd)

Describes several types of combines already
used. Describes results are set-
released for use at various mines. Results are sat-
isfactory.

61TB3

AUTHOR: Mel'nikov, M.V., Engineer.

122-1-4/34

TITLE: Running wheels of bridge cranes mounted on rolling bearings with axial freedom (Khodovyye kolesa mostovykh kranov na podshipnikakh kacheniya s osevym dvizheniyem)

PERIODICAL: "Vestnik Mashinostroyeniya" (Engineering Journal), 1957, No.1, pp. 22 - 23 (U.S.S.R.)

ABSTRACT: A self-contained, pre-loaded taper roller bearing assembly developed by VENIIPPTMASH is described, which is itself mounted on a sleeve with freedom of axial displacement along a fixed Card 1,1 axle. There are 3 figures.

AVAILABLE: Library of Congress

L 4177-66	EWP(m)/EWP(e)/EWP(i)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(s)/EWP(b)/EWA(o)
ACC NR: AP5024405	Y12(G) KJW(CL) SOURCE CODE: UR/0286/65/300/015/0083/0083
INVENTOR: Estulin, G. V.; Zimina, L. M.; Kosheleva, G. P.; Topilin, V. V.; Boyarinova, A. P.; Tavetkova, V. K.; Chatalakh, R. F.; Shnyakin, N. S.; Polyakov, K. M.; Mel'nikov, M. V.; Belyakova, K. A.; Il'lin, A. A.; Korozov, B. S.; Bogdanovskiy, S. I.	169
ORIG: none	
TITLE: Wrought, heat-resistant, nickel-base alloy. Class 40, No. 173418 [announced by Central Scientific Research Institute of Ferrous Metallurgy im. Bardina (Tsentral'nnyy nauchno-issledovatel'skiy institut chernoy metallurgii); s-d "Elektrostal'" im. I. F. Tevosyan]	
SOURCE: Byulleten' izobretений i tovarnykh znakov, no. 15, 1965, 83	
TOPIC TAGS: alloy, nickel alloy, chromium containing alloy, molybdenum containing alloy, tungsten containing alloy, titanium containing alloy, aluminum containing alloy, carbon containing alloy, beryllium containing alloy, cerium containing alloy	
ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nickel-base alloy with improved mechanical properties and weldability. The alloy contains 17 to 20% chromium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% aluminum, 0.1% max carbon, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% max manganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium. [AZ]	
SUB CODE: MAI SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 4128	
Card 1/1 Rev JDC: 660.245	

MEL'NIKOV, M.Ya.

Milling machine device for setting the worked part. Rats. i izebr. predl.
v stroi. no.116:13-14 '55. (MIRA 9:7)
(Milling machines--Attachments)

MAYOROV, Ya., general-mayor; VAZHENTSEV, I., polkovnik; GAVRILENKO, I.,
polkovnik; GOL'DMAN, G., polkovnik; MEL'NIKOV, N., polkovnik

Creatively study scientific communism. Komm. Vooruzh. Sil
46 no.19:58-61 O '65. (MIRA 18:12)

MEL'NIKOV, N., kand.tekhn.nauk

Present-day mine supports. Prof.-tekhn. obr. 20 no.8:15-17 Ag
'63. (MIRA 16:9)
(Mine timbering) (Mining engineering)

MEL'NIKOV, N.A.

Snow melters attached to hot-water or gas heating systems.
Gor.khoz.Mosk. 33 no.10:34-35 O '59. (MIRA 13:2)

1. Starshiy inzhener zhilishchno-eksploatatsionnoy kontory
No.2 Sverdlovskogo rayona Moskvy.
(Moscow--Snow removal)

MEL'NIKOV, N.A.

Political sections of machine-tractor stations as the organizers of socialist competition on collective farms. Trudy LKI 24:57-66 '59.
(MIRA 14:9)

1. Kafedra marksizma-leninizma Leningradskogo korablestroitel'nogo instituta.

(Machine-tractor stations) (Collective farms)

MIKHAYLOV, A.M.; BOGDANOV, B.L.; MEL'NIKOV, N.A.--

Thermal conditions in the casting of a D-100 diesel engine
crankshaft. Izv. vys. ucheb. zav.; chern. met. 5 no.3:15%-168
'62. (MIRA 15:5)

1. Moskovskiy institut stali.
(Iron founding)

MFI: K. V. R. S.

Voltage regulation in municipal electrical networks. Brady
IEI no. 41; 83-91 '82. (MIRP 1756)

1. Всасывая зеркально оперативно или иное.

GLEBOV, I.A.; KASHTELYAN, V.Ye.; NOVITSKIY, V.G.; Sidel'NIKOV, V.V.;
SIROTKO, V.K.; MEL'NIKOV, N.A.; LUGINSKIY, Ya.N.; STERNINSON,
L.E.; YUREVICH, Ye.I.; TSUKERNIK, L.V.

Scientific problems in the field of automatic control and regulation
of large electric power systems and their elements.
Sbor. rab. po vop. elektromekh. no.10:23-40 '63.

(MIRA 17:8)

UL'NIKOV, N. A.

Cand. Technical Sci. Engineering, Hd. Chair Electrical Networks & Systems,
All-Union Energetics Correspondence Inst., -1949-. "Scientific-Technical
Society of the All-Union Energetics Correspondence Institute," Elektrichestvo,
No. 4, 1949; "Review of S. A. Ul'yanov's book 'Short Circuits in Electrical
Systems", Elektrichestvo, No. 9, 1949.

NEL'NIKOV, N. A. DR.

PA 39/49T38

USSR/Engineering
Training

Apr 49

"Scientific-Technical Society, All-Union Power
Engineering Correspondence Institute," Dr N. A.
Nel'nikov, Cand Tech Sci, i.p.

"Elektrichesvo" No 4

Society is divided into four sections: physico-
mathematical and technical sciences (director,
Docent M. K. Strugatskiy, Cand Tech Sci), electrical
and radio engineering (director, B. M. Tarev,
Dr Tech Sci), thermoelectrical engineering (director
Prof M. S. Shkrob, Dr Tech Sci), and hydroelectrical

USSR/Engineering (Contd)

Apr 49

engineering (director, Prof V. V. Vedernikov,
Dr Tech Sci). Society is charged with developing
scientific activity of Institute's teaching
collective and fulfilling scientific-methodological
work in drawing up textbooks and study aids for
correspondence courses.

39/49T38

39/49T38

MEL'NIKOV, N. A.

Computations of electric power line systems. Moskva, Gos. energ. izd-vo,
1950. 175 p. (50-39651)

TK3221.M4

MEL'NIKOV, N. A., Docent

USSR/Electricity - Literature
Transformers

Jan 52

"Review of V. G. Kholmskly's 'The Use of Regulating Transformers in Electric Networks,'" Docent N. A. Mel'nikov, Cand Tech Sci, All-Union Corr Power Eng Inst

"Elektrichesvo" No 1, pp 94, 95

Favorable review of subject book, which has the following 7 chapters: (1) principle of transformers for regulating voltage in electric networks; (2) use of regulating transformers in open high-voltage networks; (3) use of regulating

201118

USSR/Electricity - Literature (Contd) Jan 52

transformers in city and rural networks; (4) use of regulating transformers for communications systems; (5) natural distribution of power in closed networks and the effect of boosters on it; (6) economical distribution of power in a 1-voltage closed network and the use of boosters to effect it; (7) economical distribution of power in 2-voltage closed networks.

201118

MEL'NIKOV, N. A.

Electric Engineering

Activities of the All-Union Electrical Institute for Extension Courses. Elektrичество
No. 3, 1952. Dots. Zam. Predsedatelya Pravleniya MTC VZEI

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.²

1. MELNIKIV N.A.
2. USSR (600)
4. Short Circuits
7. "Short circuit in electric systems." S.A. Ul'yanov. Reviewed by N A Mel'nikov
Elek.sta. 23, no. 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, unclass.

GERSHANGORIN, A.I.; SHERENTSIK, A.N.; MEL'NIKOV, N.A.

Transposition of long transmission lines. Elektrichesstvo '53, No.1,
16-22.
(MLRA 6:2)
(EEA 56 no.67033979 '53)

MARKOVICH, I.M., doktor tekhnicheskikh nauk; MEL'NIKOV, N.A.

"Calculating the operating processes of the networks of electric power systems." H.A. Mel'nikov. Reviewed by I.M. Markovich. Elek.sta. 24 no.5: 63-64 My '53. (MLRA 6:7) (Electric networks) (Mel'nikov, N.A.)

CHILIKIN, M.G.; GLAZUNOV, A.A.; STEPANOV, V.N.; TELESHEV, B.A.; GRUDINSKIY,
P.G.; VENIKOV, V.A.; MEL'NIKOV, N.A.; ROGALI-LEVITSKIY, M.V.; GLAZUNOV,
A.A.; SOLDATKINA, L.A.; ZHUKOV, L.A., ANISIMOVA, N.D.

A.IA.Riabkov. Obituary. Elektrичество no.3:92 Mr '54. (MLRA 7:4)
(Riabkov, Aleksandr IAkovlevich, 1890-1954)

MEL'NIKOV, N.A.

621.313.051 : 621.315.09
4932. Non-full-phase operating conditions on long
transmission lines. N. A. MEL'NIKOV AND A. N.
SIERENTZIK. Elektricheskaya promst., 6, 3-7, In
Russian.

The usefulness of maintaining operation on duplex transmission systems in the case of an interruption of individual phase in one or more line sections is discussed. The resulting asymmetry of the currents and voltages in the parts of the circuits which in themselves remain symmetrical may be reduced by artificial means. This is particularly necessary if (as recommended by the regulations) on the cutting-out of a failed phase in one of the two circuits, the corresponding phase of the other circuit is also disconnected. The resulting asymmetry may then, without intervention of the longitudinal compensation, exceed the permissible limits for hydro-generators mostly supplying the long-distance transmission systems. The transverse compensation may also play a certain part in reducing the asymmetry. It is obvious that the system protection needs a special adjustment where this type of operation is intended. The effects on the transmitting capacity and stability are analysed in a theoretical appendix.

N. F. KRAUS

MEL'NIKOV N A

AID P - 1215

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 10/34

Authors : Mel'nikov, N. A., Kand. of Tech. Sci., and
Sherentsis, A. N., Eng.

Title : Tapping power from electric transmission lines through
capacitors

Periodical : Elektrichestvo, 12, 51-56, D 1954

Abstract : The frequent need to tap small quantities of power for
local (agricultural or auxiliary) use from a high voltage
electric transmission line without building costly sub-
stations is discussed. Such tapping can best be done
through the installation of capacitors of high frequency
communication system. The cost of additional equipment
is low. With the power factor 0.8, it is possible to ob-
tain a tapped capacity up to 360 kw. 12 diagrams, 3 Russian
references (1950-1952).

Elektrichestvo, 12, 51-56, D 1954

AID P - 1215

Card 2/2 Pub. 27 - 10/34

Institutions: VZEI (All-Union Correspondence Electrical Institute) and
TEPLOENERGOPROYEKT (Trust for the Planning and Investigation of Thermal and Electric Power Plants, Networks and Substations)

Submitted : Jl 10, 1954

MEL'NIKOV, N. A.

Subject : USSR/Electricity AID P - 1235
Card 1/1 Pub. 27 - 30/34
Authors : Venikov, V. A., Doc. of Tech. Sci., Prof. and
 Mel'nikov, N. A., Kand. of Tech. Sci., Dotsent
Title : Kh. F. Fazylov. Theory and Methods of Calculation of
 Electrical Systems. Steady State Conditions. 171 pages...
 Published by the Uzbekistan SSR Academy of Sciences,
 1953 (Bibliography)
Periodical : Elektrichestvo, 12, 84-85, D 1954
Abstract : The reviewers describe the book as valuable, and based on
 the many years of experience of its author. They give a
 detailed criticism, chapter by chapter of errors, which,
 however, can be corrected in the next edition.
Institution : Moscow Institute of Power Engineering im. Molotov and
 All-Union Correspondence Institute of Electrical Engineering.
Submitted : No date

CHILIKIN, M.G.; GLAZUNOV, A.A.; STEPANOV, V.N.; TELESHEV, B.A.;
GRUDINSKIY, P.G.; VENIKOV, V.A.; MEL'NIKOV, N.A.;
ROGALI-LEVITSKIY, M.V.; ROZANOV, G.M.; GLAZUNOV, G.M.;
SOLDATKIHA, L.A.; ZHUKOV, L.A.; ANISIMOVA, N.D.

Aleksandr IAkovlevich Riabkov; obituary. Elek.sta. 25 no.2:
59 F '54.

(MLRA 7:2)
(Riabkov, Aleksandr IAkovlevich, 1890-1954)

MEL'NIKO, N. A.

AID P - 1601

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 10/27

Authors : Gershengorn, A. I., Eng. and Mel'nikov, N. A., Kand. of Tech. Sci.

Title : Transpositions in 35 to 220 kv electric networks

Periodical : Elektrichestvo, 3, 49-54, Mr 1955

Abstract : The authors investigate operational conditions of electric transmission lines with long transposition intervals in complex electric networks. On the basis of Soviet operational experience with transposition, they present several conclusions of practical significance. They introduce a method of determining unsymmetrical currents and voltages in complex networks. Five diagrams, 5 tables, 6 Russian references (1944-1953)

Elektrichestvo, 3, 49-54, Mr 1955

AID P - 1601

Card 2/2 Pub. 27 - 10/27

Institution: Teploelektroproyekt (Trust for Planning and Investigation
of Thermal and Electric Power Stations, Networks,
and Substations, and All-Union Power Engineering
(Correspondence Institute)

Submitted : Je 25, 1954

MEL'NIKOV, N. A.

MARKOVICH, Isaak Moiseyevich; MEL'NIKOV, N.A., redaktor; MEDVEDEV, L.Ya.,
tekhnicheskiy redaktor

[Power systems] Rezhimy energeticheskikh sistem. Izd. 2-oe, perer.
i dop. Moskva, Gos. energ.izd-vo, 1957. 270 p. (MIRA 10:7)
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ATABEKOV, Grigoriy Iosifovich, professor; MEL'NIKOV, N.A., redaktor;
ISTRATOV, V.N., redaktor; LARIONOV, G.Ye., tekhnicheskiy re-
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[Theoretical principles of relay protection of high voltage systems]
Teoreticheskie osnovy releinoi zashchity vysokovol'tnykh setei. Mo-
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Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 2, p 49 (USSR)

AUTHOR: Mel'nikov, N. A.

TITLE: A Determination of the Parameters of a Two-Circuit Line Operating with an Incomplete Number of Phases (Opredeleniye parametrov dvukhtsepnoy linii, rabotayushchey v nepolnofaznom rezhime)

PERIODICAL: Tr. Vses. zaochn. energ. in-ta, 1957, Nr 7, pp 243-247

ABSTRACT: The feasibility is pointed out of the determination, for a two-circuit line, of all of the parameters necessary for calculating an electric system under an incomplete number of phase conditions, on the basis of known parameters of the line used in making up the conventional positive-, negative-, and zero-phase sequence circuit diagrams. For this purpose, the conventional complex circuit diagram for various conditions is used. Solutions can be reduced to design formulae in all cases when the effect of transverse branches of equivalent circuit diagrams can be neglected. The feasibility has been pointed out of representing such simplified incomplete-phase lines on a

Card 1/2

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A Determination of the Parameters of a Two-Circuit Line Operating with an calculating model by means of four resistors connected in series with three phases and a neutral conductor.

N.A.M.

Card 2/2

GRUDINSKIY, P.G., professor; SHMITSER, L.M., inzhener; ROZENBERG, B.I.,
kandidat tekhnicheskikh nauk; BALASHOV, K.K., kandidat tekhnicheskikh
nauk; MEL'NIKOV, N.A., kandidat tekhnicheskikh nauk.

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